mon amie

Operating Instructions

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General information

About these instructions

This operating manual is intended for use by

- operating staff,
- users,
- service staff.

Any person dealing with this tanning unit must have read and understood these instructions.

This manual describes units equipped with the maximum number of features.

Keep this manual ready to hand at all times.

Transport by forklift truck

The device is mounted on a pallet.

- Insert the forks carefully into the openings of the pallet.
- Lift the load by a few centimetres.
- Transport the load carefully to the place of installation.

Other modes of transport

If a forklift truck cannot be used for transport, the box must be unpacked and the parts inside must be transported individually to the place of installation, e.g. using a dolly. Depending on the weight of the components, lifting them might require several people.

DANGER

Overturning load!

Danger of being crushed by heavy parts of the equipment.

- **Wear safety shoes.**

Old equipment disposal

This device consists of components that cannot be thrown into the household garbage!

Dispose of your old equipment in an environmentally friendly manner after the end of its useful life. Metals and plastics can be recycled. Electrical and electronic components must be disposed of as e-waste. Fluorescent lamps must be dropped off at authorized collection points for pollutants.

This helps to avoid damaging effects to the environment and human health caused by improper disposal.

This makes a valuable contribution to recycling and other forms of utilization of old electrical and electronic equipment.

You can obtain information about environmentally friendly disposal from your local government or the municipal administrations.

Service

For all service-related questions, please contact your responsible specialist deale

Safety notes

This chapter provides a summary of general information on safety and proper handling of the device. More specific safety advice is given in other chapters of the operating manual.

Intended use

The unit is intended to be used for the tanning of one single person at a time. This person must not fall in one of the categories mentioned below, otherwise using the tanning equipment is prohibited for him or her.

The following individuals must not use the tanning system:

- Persons under 18 years of age
- Persons with heart pacemakers.
- Persons, who are suffering or have suffered from skin cancer or have a predisposition toward this, or those whose first-degree relatives are suffering or have suffered from malignant melanoma (black skin cancer).
- Persons taking photosensitive medications.
- Persons, who are being treated by a physician for conditions associated with photosensitivity.
- Persons suffering from acute sunburn.
- Persons, who are prone to freckles.
- Persons with atypical discoloured skin areas or/ and with more than five atypical moles with a diameter of 5 millimetres or more and persons with more than 16 moles with a diameter greater than or equal to 2 millimetres. If in doubt, consult a physician!
- Persons, who had several severe sunburns as children.
- Persons with naturally red skin colour.
- Persons, who do not tan at all or cannot tan without getting sunburn.
- Persons, who have a predisposition toward sunburn.

Furthermore, this tanning unit has been designed for use by individuals who are in full command of their physical, sensorial and mental faculties. Moreover, sufficient knowledge and experience are required. During the operation no other persons shell be in the radiation range of the device.

Children, should be supervised to make sure that they do not use the unit as a toy.

Duties of the operator

KBL AG cannot be held liable for any damage resulting from improper use of the equipment or non-observance of these operating instructions.

Only use original replacement parts!

Only replace tubes with those listed on the device. Otherwise, this voids the operating authorization and warranty!

Timer operation

The tanning unit must be controlled via an external timer. Should the external timer fail, an internal safety timer will switch off the system automatically after 30 minutes.

General safety advice

- Follow all instructions given in this manual. In addition, observe all relevant statutory provisions and regulations, also those applicable in the country of operation.
- The unit must only be installed and assembled by specifically trained staff.
- Arbitrary modifications or conversions of the equipment are not permissible.
- Observe all danger signs and safety notices attached to the equipment.
- Safety notices must not be removed, and safety equipment must not be disabled or removed.
- The unit must only be operated when in perfect working condition.
- Never operate the unit with the outer covers or acrylic panes removed.
- The tanning system must be controlled via a timer that complies with the generally applicable standards.
- Absolutely observe the maintenance frequencies indicated in the maintenance plan.

Tanning times

Adhering to tanning times and schedules is essential.

Description of the unit

Congratulations!

With your *mon amie*, you have purchased the first Collarium® in the world.

A combination of special collagen tubes to build up the collagen deposits in your skin, in conjunction with optional UV-tubes to create a subtle tan, makes your *mon amie* a one of a kind skin care system.

In addition, your *mon amie* has a medical skin sensor. This measures the melanin content of the skin and thus ensures individual and safe tanning.

Standards

This tanning system complies with the following standards in their respectively applicable version:

- EN 60335-2-27
- Low Voltage Directive 2006/95/EC
- EMV 2004/108/EC

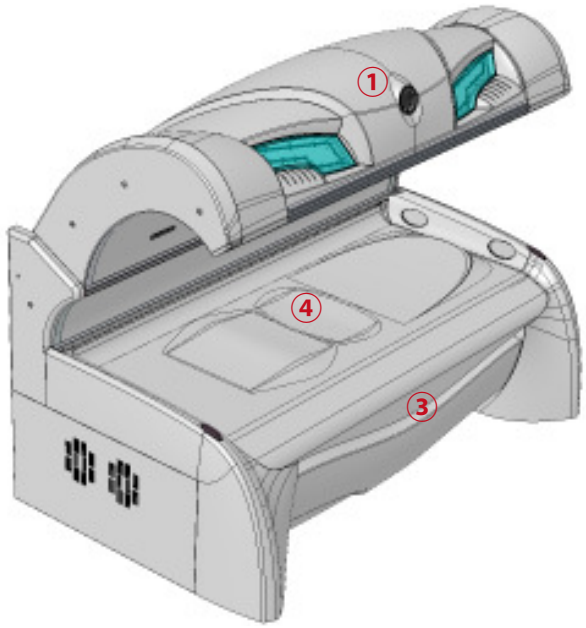
An EC Declaration of Conformity can be requested from the manufacturer.

Components

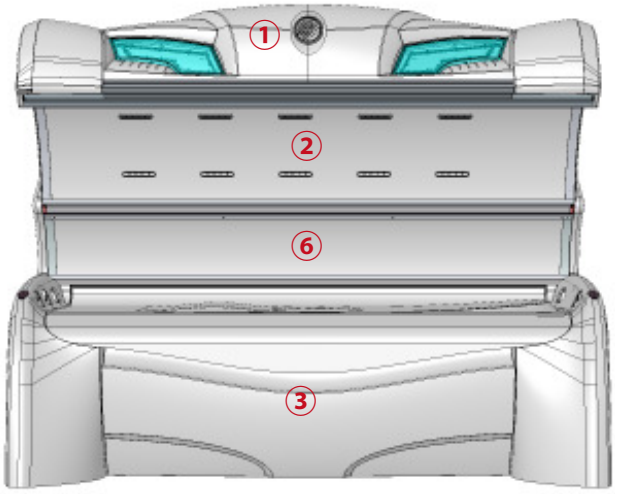
The tanning unit basicallly consists of the following components:

- The canopy including 10 UV tubes, ambient air supply and 10 Collagen tubes.
- The side part including 3 UV tubes and 4 Collagen tubes.
- The base part including 9 UV tubes, 9 Collagen tubes, the electronics unit and further, optionally available components.

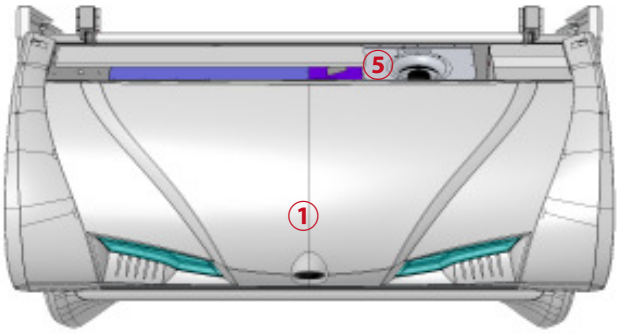
KBL - *mon amie*, canopy opened



Front view, canopy opened



Top view, canopy opened



1	Canopy
2	Canopy pane
3	Base section
4	Bed pane
5	Air supply connector in the canopy
6	Side pane

Connections

Connecting the mains voltage

DANGER!

Live components

Risk of fatal injury due to electric shock when touching live parts.

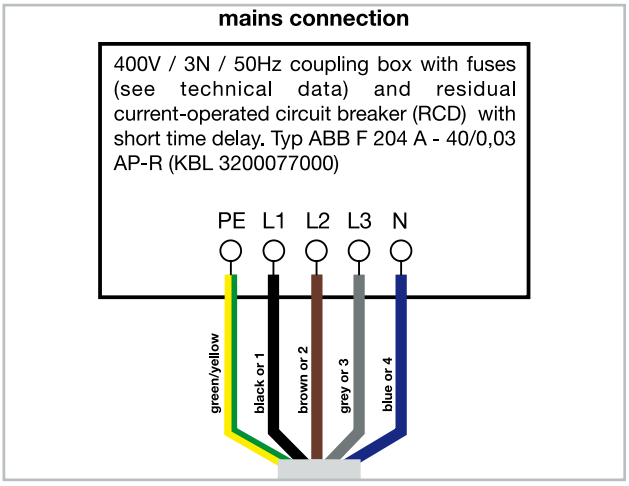
- Switch off mains voltage.

- Protect against re-connection.

Both the power supply and the related connection work must comply with national standards, e.g. those set up by VDE in Germany. The connection work must only be performed by qualified expert staff.

The connection to the 400 V mains must be protected by fuses. Their specifications are listed in the chapter “Technical data”. A residual current-operated circuit breaker (RCD) with short time delay is absolutely required. KBL AG recommends the following type: KBL 3200 0770 00 (type (Typ ABB F 204 A - 40//0,03 AP-R). Should the operation of the tanning unit cause any interference in the power supply network, e.g. with ripple-control systems (TRA), consult your power supply company to have corresponding blocking elements (audio frequency suppressors) installed.

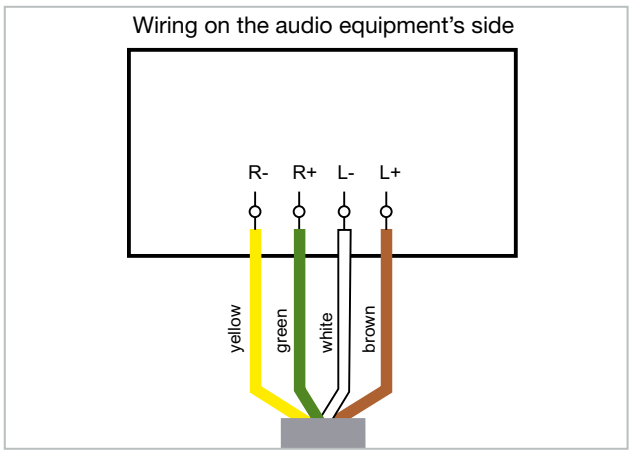
Figure: mains connection


mains connection
400V / 3N / 50Hz coupling box with fuses (see technical data) and residual current-operated circuit breaker (RCD) with short time delay. Typ ABB F 204 A - 40/0,03 AP-R (KBL 3200077000)
PE L1 L2 L3 N
green/yellow
black or 1
brown or 2
grey or 3
blue or 4

Connecting an external audio source

When connecting an external audio source, pay attention to the correct polarity.

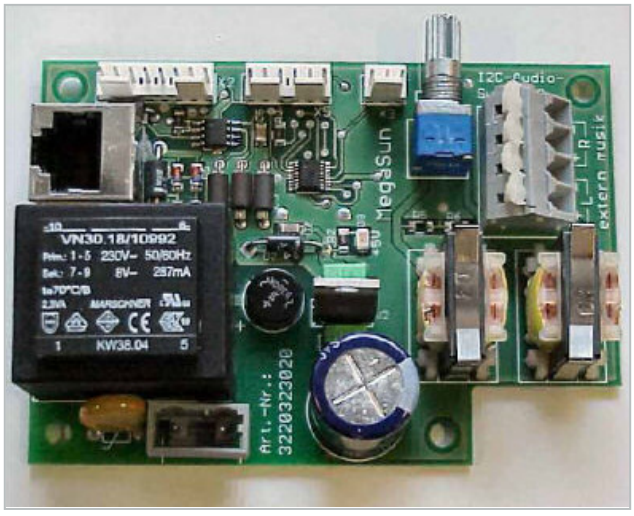
Figure: connecting external audio



Level adjustment

The voice/audio system components are built into the base part (in the head area) of the tanning unit. The total level adjustment is carried out via a potentiometer (see arrow) that is located on the audio switch circuit board.

Figure: audio switch circuit board



Operation using different audio sources

The tanning unit can be operated using the following audio sources:

- An internal MP3 player alone
- An external audio source alone
- Both audio sources

Use the control panel to alternate between internal and external audio source.

INTERNAL MP3 PLAYER

When using the internal MP3 player, you can either play the music tracks that are originally supplied on the SD card, or you can record your own tracks on the SD card.

EXTERNAL AUDIO SOURCES

As an external audio source, you can connect devices ranging from the standard-line level to low loudspeaker levels.

These sources comprise:

- the studio music, and
- external players such as MP3 players, mobile phones (cell phones), iPods, etc.

EXTERNAL AUDIO SIGNAL 100 V (OPTIONAL FEATURE)

A transformer (KBL item no.: 9100 0170 00) is required for the transmission of the audio signal if a 100 V audio system is connected.

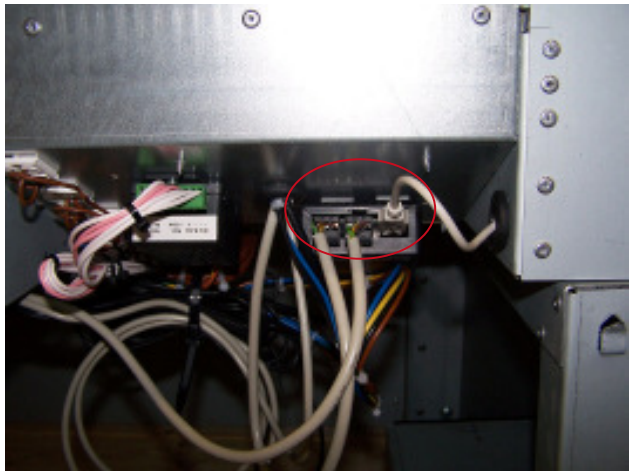
The connection must be carried out by trained service staff.

STUDIO MUSIC

The level of the studio music can be adjusted by means of a potentiometer on the line box. The box is located below the bed, on the right-hand front side *(figure: line box)*.

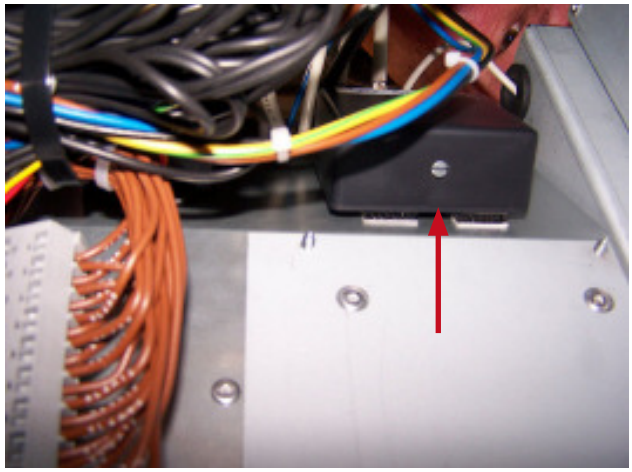
It is only fixed by Velcro tape and can be removed.

Figure: line box



The potentiometer is located on the rear side of the box (*figure: line box potentiometer)*. This is where you can adjust the studio music to the level of the integrated MP3 player.

Figure: line box potentiometer

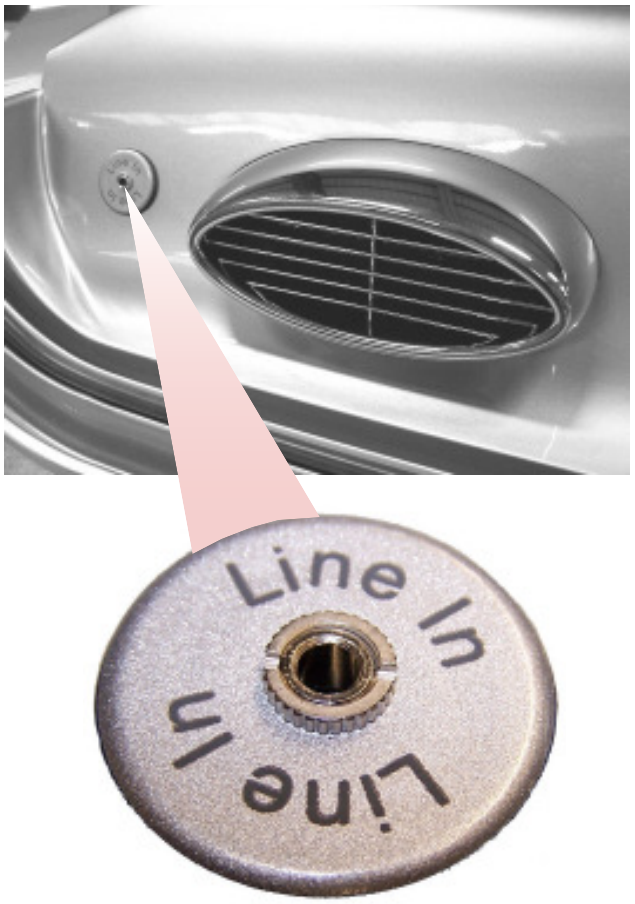


EXTERNAL PLAYERS

A line-in connector is available in the head area of the bed, on the right-hand side, so that the studio client can plug in his/her own equipment, e. g. MP3 player, iPod, etc. *(figure: line in connector)*. Use a standard 3.5 mm jack cable (included if the music option has been ordered). If an external player is plugged into this connector, the system switches over automatically and plays the music of the personal player. This assumes that you have selected the “Studio” option of the menu item “Audio” in the service menu I.

A level adjustment is performed using the volume control of the panel of the collarium, and the volume control of the external player.

Figure: line in connector



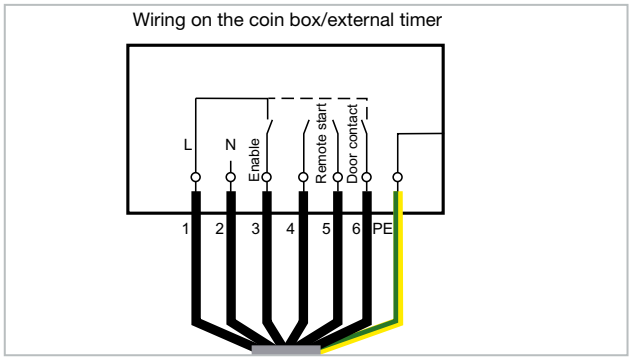
The tanning unit can only be operated with audio sources if you have purchased the optionally available audio package.

For further information, please refer to the chapters “Connections” and “Operation in service mode”.

Connecting the external timer

Connect the external timer (coin box, studio control) according to the instructions supplied with the timer. The following diagram shows the wiring requirements with regard to the timer. The door contact is required if you have opted for the booth-scenting feature.

Figure: connecting the external timer



Connecting the chan. selection

The following diagrams show the wiring of the channel selection on the audio equipment’s side, for pulse coding and for BCD coding.

Figure: pulse

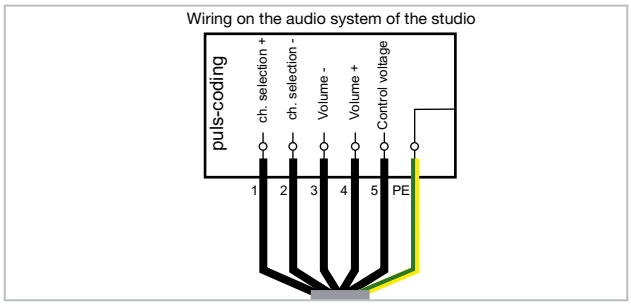
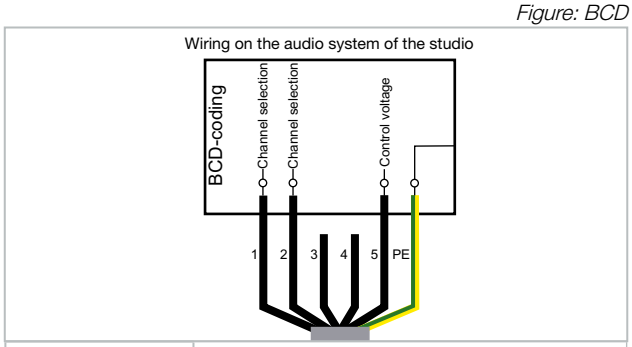


Figure: BCD



CHANNEL	BCD CODING	
1	0	0
2	1	0
3	0	1
4	1	1

Start-up

Before switching on for the first time:

- Fix the supplied warning sign or one with the following wording permanently to the wall close to the tanning unit:

Warning!

- UV-radiation can cause eye and skin damage as well as skin aging and possibly skin cancer. Ask the studio staff for further information.
- Wear protective goggles.
- Certain medicines or cosmetics can increase the sensitivity of the skin to UV radiation. If in doubt, consult a physician.

- Determine the presettings for the device in the service menu.
- Store these Operating Instructions in a place that allows for easy access at any time.

Operating modes

The three different operating modes are explained below:

STANDBY MODE

The unit is in an idle state, i.e. it is connected to the mains but is currently not being used. The tubes and the tanning lamps are switched off. From the standby mode, you can change over to the tanning mode or to the service mode.

TANNING MODE

The tubes and the tanning lamps are switched on and a tanning session is in progress. While the unit is in tanning mode, the settings for the ongoing tanning session can be changed via the control panel.

SERVICE MODE

In the service mode, the device is configured for the tanning mode. Various values can be displayed and test functions can be carried out.

FAN RUN-ON

After the tanning session, the fan runs on for 3 minutes in order to cool down the device. The fan power is automatically decreased as the tubes cool down.

Collagen-Tanning instructions

Your mon amie is primarily a skin care system for the targeted build-up of collagen. It is optionally possible, however to administer a UV-dose. In this case, follow the instructions below.

Notes regarding UV-tanning

As a rule, an averagely tanning skin has achieved a uniform tan after three to five tanning sessions. These sessions should take place every second day. To preserve the suntan achieved, one or two tanning sessions per week are normally sufficient.

NO SUNSCREEN WITH PROTECTION FACTOR

Sunscreens with sun protection factors are unsuitable for use in a tanning salon. For tanning, the skin should have been thoroughly cleaned and be dry. For optimum skin care, we recommend using our "AfterSun" line of body-care products after tanning.

GENERAL

- Any person that complies with the requirements laid down in the chapter "Intended use" may use the device.
- Never exceed your personal minimum erythema dose (MED).
- If reddening of the skin (erythema) occurs hours after tanning, temporarily stop tanning.
- If unexpected effects (such as itching) occur within 48 hours after the first tanning session, you should consult a physician before tanning again.
- Once final tanning has been achieved, additional tanning is only possible by greatly exceeding the permissible tanning times. It is essential to avoid this.
- UV-radiation from the sun or from UV-devices can cause irreversible skin or eye dama. These biological effects depend on the type and amount of radiation as well as on the individual sensitivity of the skin.
- In cases of pronounced individual sensitivity or allergic reactions to UV-radiation, a physician should be consulted before beginning tanning.
- After excessive exposure to radiation, the skin may exhibit sunburn. Excessively repeated exposure to UV radiation of sunlight or UV appliances can result in premature ageing of the skin and in a higher risk of skin cancer.
- The unprotected eye can suffer from surface inflammation, and in certain cases, e.g. after a cataract operation, excessive radiation can damage the retina. After many repeated sessions, a cataract may form.
- Seek medical advice if persistent swellings or sores develop on the skin or if pigmented moles change in appearance.

FOR EACH TANNING SESSION

- Always wear the supplied protective goggles. Contact lenses or sunglasses are no substitute for the protective goggles!
- Remove cosmetics before tanning and do not use any sunscreen, or products that accelerate tanning.
- Allow for at least 48 hours to pass between sessions.
- After a tanning session in a studio, do not take another sunbath out of doors on the same day.
- Protect sensitive areas, such as scars, tattoos, and genitalia, from radiation.

Collagen-Tanning times

Your tanning time with the mon amie should be as pleasant as possible. For this reason, the UV-dose to be administered is not controlled by time, but rather by intensity. The collagen intensity is constant over time.

UV-DOSAGE

The UV-dose to be administered is determined **individually depending upon skin type** before each tanning session with the aid of a skin sensor (melanin sensor).

Based on this measurement, the UV-dose to be administered is automatically adjusted by means of the fixed tanning time.
The administered UV-dose will never exceed the maximum value of 300 J/m².

If **no** skin measurement is performed, the minimum dose of 100 J/m2 is automatically administered. The UV-tubes switch off automatically after 10 minutes. The **first tanning session** must always be performed in this manner!

If no tanning takes place for four weeks, the person tanning must begin with the first tanning session again.
This information is only in effect for devices that are maintained according to the intervals listed in the maintenance chapter (cleaning and replacing tubes).

ATTENTION

Performing the first tanning session.

In order to ensure that no more than 100 J/m² are administered during the first tanning session, this must performed **without** prior skin measurement!

- Dose of first tanning session 100 J/m² for 10 min
- Maximum dose 300 J/m² for 20 min
- The time between two tanning sessions must be at least 48 hours.
- Maximum 50 tanning sessions per year (=15 kJ/m²)

DANGER

Excessive dose of UV radiation

Excessively prolonged tanning sessions may cause severe damage to skin and eyes.

- Never operate the Collarium® with a defective timer.
- Observe the tanning times given in the tanning schedule.

Collagen-Tanning mode

Start of the collagen/UV tanning session

Your mon amie makes it possible for you to choose between pure collagen operation or a collagen/UV-mix.

In order to obtain the optimum effect, the Collarium® automatically adapts the UV-portion of the tanning to your individual skin type, if desired.
For this, it is necessary to measure the melanin with the mon amie skin sensor.

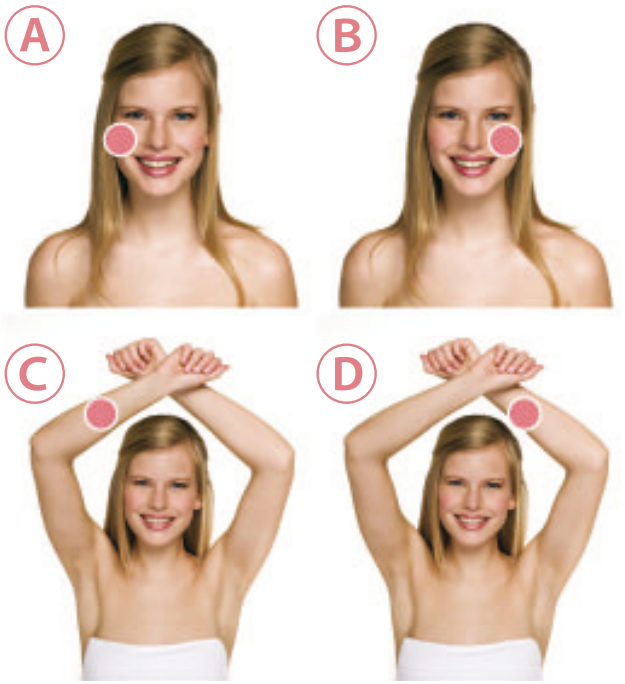
THE mon amie SKIN SENSOR

mon amie skin sensor (terminal)	
①	Start button
②	Melanin sensor
③	Measuring point display fields
④	Display of the tanning time

MELANIN MEASUREMENT

Press the start button ① and follow the instructions of the acoustic menu navigation.
The melanin sensor ② must be placed vertically on the point shown on the mon amie skin sensor. The respective display field ③ lights up. Repeat this procedure for all measuring points Ⓐ Ⓑ Ⓒ Ⓓ, until the acoustic menu navigation informs you that the measurement process was successful.

MEASURING POINTS



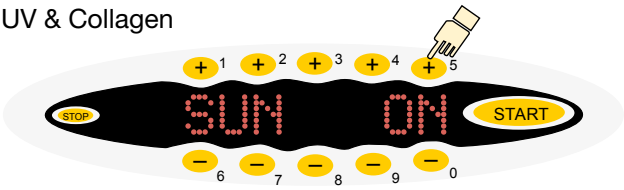
Attention

- Clean the melanin sensor ② **before** measurement in the presence of the customer.
- For this, always follow the instructions in the maintenance portion!

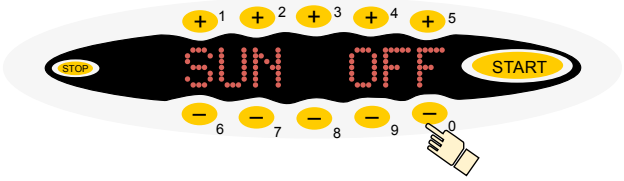
PRESELECTING THE TYPE OF TANNING

Before starting the tanning session, you can choose between a UV/collagen mix or a pure collagen tanning session.

UV & Collagen



Only Collagen



ASSUMING THE TANNING POSITION

The canopy must be kept closed during the tanning session in order to ensure the proper functioning of the ventilation system.

1. Close the canopy and place yourself in the middle of the device. Make sure that you are positioned at an equal distance between your body and the surrounding sunlamps.
2. Put on the protective goggles.

STARTING

To start the system during the warm-up time, press the START button. After the set warm-up time has elapsed, the tanning session will commence automatically.

STOPPING

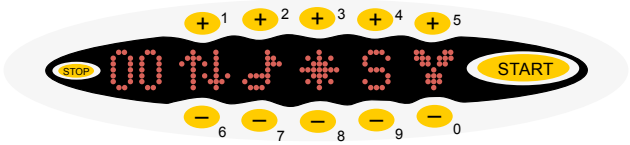
Keep the STOP button pressed for at least two seconds. As an acknowledgement, you will hear a sound signal, and the session-time display starts flashing. The session is discontinued but the time will continue to be counted. The tanning session can be continued by pressing the START button if the available session time has not elapsed yet.

After the time given by the timer has elapsed, the session is terminated automatically, and the fan will run on for three minutes.

Display in collagen tanning mode

The following section shows the display and names its operating elements available in the tanning mode. Which of the operating elements are actually available on your device depends both on the optional features selected for your tanning system and on the settings made in the service menu.

Display



	Display of session time and of change in volume and fan power
	Back to previous/forward to next display
	Volume
	Air-conditioning
	UV-tubes on/off
	Body fan

Functions

Use the plus button to switch on the function or to set the next higher value. Press the button as often as necessary to set the maximum value (e.g. fan speed).

Use the minus button to switch off the function or to set the next lower value. Press the button as often as necessary to set a lower value (e.g. volume).

Use the START button to switch on the unit during the warm-up time.

If the tanning session has been interrupted by pressing the STOP button, it can be continued by pressing the START button, provided that the session time available from the coin box/timer system has not elapsed yet.

The tanning session can be terminated prematurely by pressing the STOP button for at least 2 seconds.

NUMERIC DISPLAY

While the tanning program is running, the current session time is displayed here. If you change the volume, the set value between 0 ... 99% is indicated here. If you change the fan speed, the value between 20 and 99% is displayed.

TERMINATION OF THE TANNING SESSION

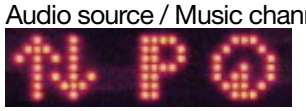
After the session time has elapsed, a program to shut down the collarium is started.

The end of the tanning session is announced acoustically and the customer is bid farewell. Tubes and fan are progressively switched off.

EXTENDED MENU

The double arrows indicate that there are further menus available that can be invoked by touching “+” or “–” above/below the double arrow. The following menus are available (explained below):

Audio source / Music channel or track selection



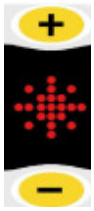
Acoustic menu guidance

You will see which of the functions are activated after switching on the unit (1=on; 0=off) by invoking these further menu functions. Particular customer requests can be preselected by making the corresponding settings in the service menu.

VOLUME

Use the “+” and “–” buttons to control the volume of the music. The volume is displayed in the numeric field as a value between 02 … 99 %. Press the corresponding button as often as necessary to reach the desired volume.

AIR CONDITIONING



If the air-conditioning function has been activated in the service menu on level 2 and if “Aircon” has been set to ON, the air-conditioning unit operates automatically depending on the operation of the UV tubes. This automatic function is deactivated as soon as the user turns off the air-conditioning unit manually. Use the “+” or “–” buttons to switch the air-conditioning system on or off during the tanning session. After the air-conditioning unit has been switched off, it can only be switched on again after 3 minutes. A small asterisk is displayed. If the request for re-activation is made earlier, it is recorded (big asterisk); after the 3 minutes have elapsed, it is switched on automatically.

Exception: If the turning-off was effected by the coin-controlled timer system, the unit can be switched on again immediately

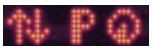
SWITCHING UV-TUBES ON / OFF (SUN)

The UV-tubes of the Collarium can be switched off separately from the collagen tubes and switched on again after a delay of 30 seconds. The symbol blinks when the UV-tubes are deactivated. The operating time of the UV-tubes depends upon the melanin measurement. If you start the tanning session without a prior melanin measurement, the UV-tubes will be deactivated automatically after 10 minutes.

ACS

ACS automatically adjusts the output of the fan depending upon the ambient temperature. However, you can manually adjust the body fan by means of the buttons “+” and “-” in steps of 10%. To switch off the body fan, press “-“ until the value 20% is displayed. Then, press the button once again and keep it pressed for 0,5 seconds. The body fan can be switched on again at any time with the “+”“ button. After the tanning session, the fan and tubes are gradually switched off. To use the ACS-control of the body fan, the function “Bodyvent” under the service menu item PINII/ACS/Bodyvent must be set to “auto”.

SUBMENU



MUSIC CHANNEL / TRACK SELECTION

This function allows you to change the music channel or to proceed to the next track (MP3). The music can be selected by the studio operator and then copied to the chip using a computer.

The MP3 player is designed in such a way that only the SD card containing the music needs to be exchanged. All devices equipped with MP3 players supplied by a KBL music selection. Optionally, the music of the MP3 player can be switched on during session breaks. Use the “+” or “–” buttons above or below the symbol to switch over. For channel selection, you can switch over to BCD selection (see AUDIO menu on service level I).

AUDIO SOURCE SELECTION

The user can choose from three audio sources during the tanning session, provided that the sources are available and have been activated in the service menu I:

- Wellness music,
- Pop music
- Music supplied by the studio control

P is displayed if at least two sources are available and activated.

The new audio source is selected and briefly displayed by pressing the “+” or “–” button above/below the “P”. Please refer to the service menu I for

more information.
The symbol “channel selection” means “next track” for Wellness and Pop, and, as usual, “next channel of the external audio source” for studio music.
Switching over is done by pressing the “+” or “–” buttons above the channel-selection symbol.

VOICE GUIDANCE - MEGAVOICE

The “Voice” function can be activated by pressing the “+” buttons (2...5), and deactivated with the “–” buttons (6...0). The display flashes as long as the function is switched off. megaVoice guides the studio customer quickly and easily through the operation options of the tanning system. If desired, the customer can deactivate megaVoice during the tanning.

Standby/service mode

In standby mode, you can turn the decorative lighting of the device on and off. In service mode, settings for operation in tanning mode are made, and certain values concerning the operation of the unit can be displayed.

Change of display information

By pressing the stop button in standby mode you can switch between the tanning mode preselection and the standard menu screen.

After 20 seconds the display automatically returns to the tanning mode preselection screen.

Turning the decorative lighting on and off

Press the buttons in the following order to turn the decorative lighting on or off: 5 0 5. Make sure that you carry out the keystrokes quickly one after the other!

In addition to this manual setting, you can go to the service menu and program a timer providing two independent activation and deactivation times.

Service menu

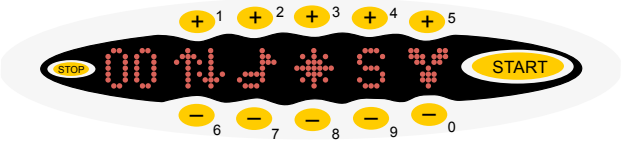
There are two service levels that can be accessed via passwords (PIN). Press the buttons 1 ... 0 to reach these levels and to be able to initiate processes on these levels. For this reason, the plus and minus buttons are also marked with numbers.

Two conditions must be fulfilled in order to access the service screens:

- No error message displayed
- No incoming signal from the coin box/timer system

If there is an error message pending, eliminate the fault first and then reset the message by pressing the “Stop” button.

Figure 20.1 Buttons1 ... 0 for service mode



SERVICE LEVEL I

Press the sequence of buttons 1 6 1 and then enter the PIN 1 1 1 1 to access service level I.

SERVICE LEVEL II

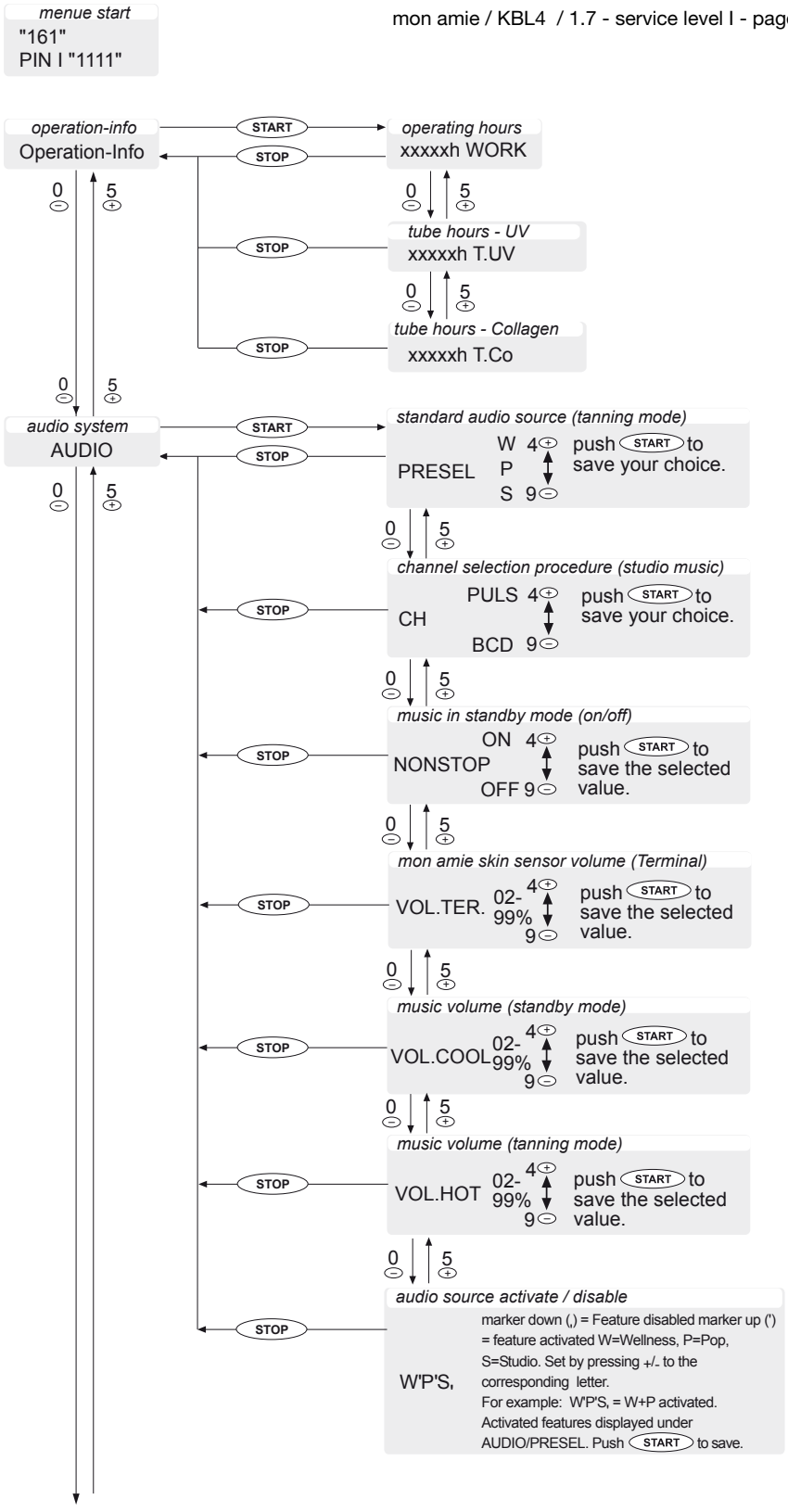
This level contains service screens that are only used by the Technical Service staff. You reach level II from the “PIN II” menu on level I by entering the correct PIN (not 1 1 1 1). Please request the PIN from the KBL service organisation.

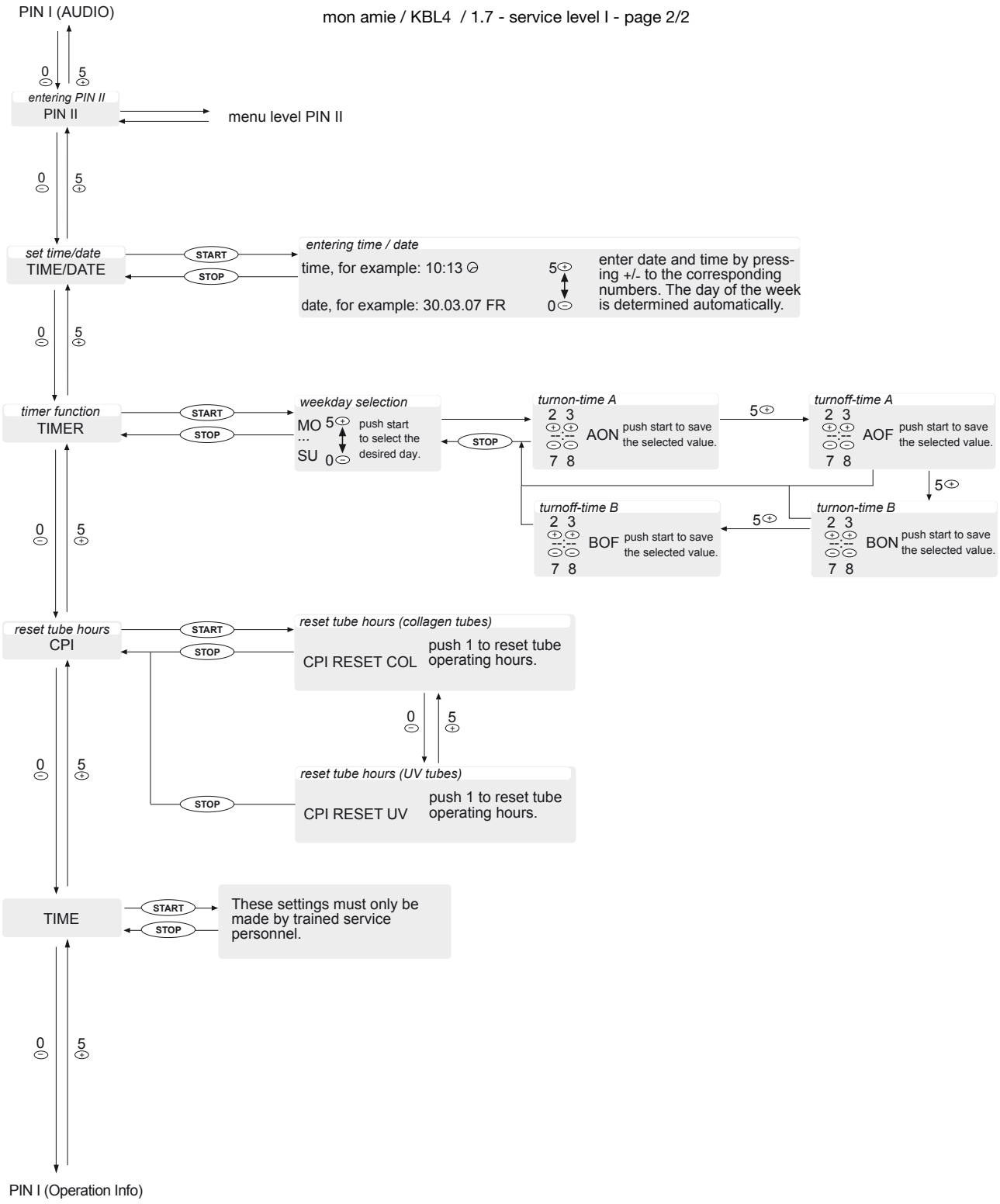
GENERAL NAVIGATION

After the service level I has been invoked, the following applies:

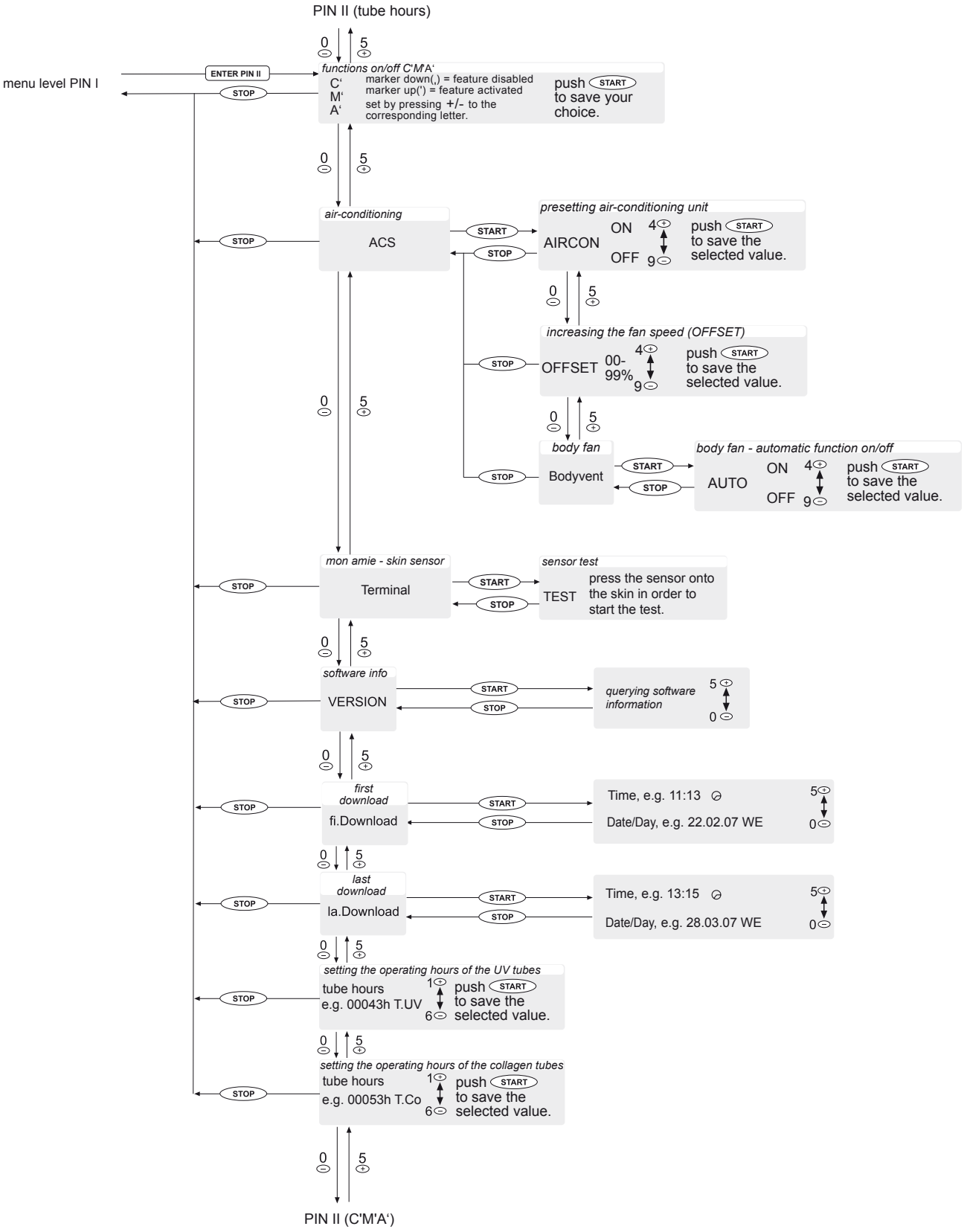
- Button 5: go forward within the menu
- Button 0: go back within the menu
- Stop button: exit the menu level, or exit the menu
- Start button: select the menu item, or save the displayed and changed value

Overview KBL4 service menu




mon amie / KBL4 / 1.7 - service level I - page 2/2
PIN I (AUDIO)
0
5
entering PIN II
PIN II
menu level PIN II
set time/date
TIME/DATE
START
STOP
entering time / date
time, for example: 10:13
date, for example: 30.03.07 FR
enter date and time by pressing +/- to the corresponding numbers. The day of the week is determined automatically.
timer function
TIMER
weekday selection
MO
SU
push start to select the desired day.
turnon-time A
AON
push start to save the selected value.
turnoff-time A
AOF
turnoff-time B
BOF
turnon-time B
BON
reset tube hours
CPI
reset tube hours (collagen tubes)
CPI RESET COL
push 1 to reset tube operating hours.
reset tube hours (UV tubes)
CPI RESET UV
TIME
These settings must only be made by trained service personnel.
PIN I (Operation Info)

mon amie / KBL4 / 1.7 - service level II - page 1/1



Settings on service level I

Information about operation

Select the menu item Operation-Info to display the working hours of the device (WORK), the operating hours of the UV tubes (T.UV) as well as the operating hours of the collagen tubes (T.Co)

Displaying the operating hours of the collarium

The menu item xxxxxh WORK is used to display the operating hours of the device.

1. Invoke the display of the operating hours (xxxxxh WORK) by pressing 0 (minus button) or 5 (plus button).
2. Press STOP to exit the menu.

Displaying the operating hours of the tubes

The menu item xxxxxh T.UV is used to display the operating hours of the UV tubes. The menu item xxxxxh T.Co is used to display the operating hours of the collagen tubes.

1. Invoke the display of the operating hours of the tubes (xxxxxh TUBE) by pressing 0 (minus button) or 5 (plus button).
2. Press STOP to exit the menu.

Setting the audio music system

STANDARD AUDIO SOURCE

The menu item AUDIO/PRESEL is used to determine which audio source is selected as the default source when the tanning session is started. Only sources that are activated under WPS can be selected.

1. Invoke the AUDIO menu.
2. Press START to invoke the submenu and press 5 (plus button) or 0 (minus button) to select WPS.
3. Preselect the desired source by pressing 4 (plus button) or 9 (minus button).
4. Press START to save the settings and STOP to exit the menu.

CHANNEL-SELECTION PROCEDURE

The external channel-selection procedure is defined via the menu item AUDIO/CH.

1. Invoke the AUDIO menu.
2. Invoke the submenu by pressing START and select CH by pressing 5 (plus button) or 0 (minus button).
3. Select PULS by pressing 4 (plus button) or BCD by pressing 9 (minus button).
4. Press the START button to save the settings and leave the menu by pressing STOP.

MUSIC ON/OFF IN STANDBY MODE

Use the menu item AUDIO/NONSTOP to switch the music on or off in standby mode.

1. Invoke the AUDIO menu.
2. Press the START button to invoke the submenu and then press 5 (plus button) or 0 (minus button) to select NONSTOP.
3. Switch the option on or off by pressing 4 (plus button) or 9 (minus button).
4. Save the settings by pressing START; press STOP to leave the menu.

VOLUME OF MON AMIE TERMINAL

Select the menu item AUDIO/VOL.TER in order to set the volume of the terminal unit. The maximum possible volume of this unit is 100 %.

1. Invoke the AUDIO menu.
2. Press START to open the submenu and select VOL.TER by pressing 5 (plus button) or 0 (minus button).
3. Set the desired percentage using 4 (plus button) or 9 (minus button).

4. Press the START button to save the settings and then press STOP to exit the menu.

MUSIC VOLUME IN STANDBY MODE

The menu item AUDIO/VOL.COOL is used in order to determine the volume of the music during a standby mode. The maximum possible volume of the unit is at 100 %.

1. Invoke the AUDIO menu.
2. Use START to invoke the submenu and press 5 (plus button) or 0 (minus button) to select VOL. COOL.
3. Set the desired percentage by pressing 4 (plus button) or 9 (minus button).
4. Press START to save the settings and STOP to exit the menu

MUSIC VOLUME IN TANNING MODE

The menu item AUDIO/VOL.HOT is used in order to determine the volume of the music during a tanning session. The maximum possible volume of the unit is at 100 %.

1. Invoke the AUDIO menu.
2. Use START to invoke the submenu and press 5 (plus button) or 0 (minus button) to select VOL. HOT.
3. Set the desired percentage by pressing 4 (plus button) or 9 (minus button).
4. Press START to save the settings and STOP to exit the menu.

ACTIVATING/DEACTIVATING AUDIO SOURCES

The menu item AUDIO/WPS is used to determine which audio sources are to be made available to the salon client. W=Wellness, P=Pop, S=Studio Music. In the case of a top mark (apostrophe: W'), the corresponding source is activated while it is deactivated if a bottom mark is shown (comma: W,). All activated sources are listed under AUDIO/PRESEL.

1. Invoke the AUDIO menu.
2. Use START to invoke the submenu and 5 (plus button) or 0 (minus button) to select PRESEL. Set the desired value by using the plus and minus buttons to the corresponding letters.
3. Press START to save the settings and leave the menu by pressing STOP.

Entering PIN II

By entering your PIN II here, you will be admitted to the next service level. (See *Settings on service level II*).

Setting date and time

The current time and date are set within the menu item TIME/DATE. This information is required for the proper execution of the timer function for the decorative lighting. Date and time are displayed for approx. 2 seconds after the unit has been turned on.

1. Invoke the TIME/DATE menu.
2. Choose the time setting with START and set the time by pressing the plus or minus buttons to the corresponding number.
3. Choose the date setting using 5 (plus button) or 0 (minus button) and set the date by pressing the plus or minus buttons to the corresponding number. The day of the week is determined automatically.
4. Save the settings using START and press STOP to exit the menu.

Setting the timer function of the decorative lighting

The menu item TIME/DATE allows you to enter two pairs of times per day at which the decorative lighting is automatically switched on and off (e.g. Monday at 10:00 h on, at 12:00 h off, at 13.00 h on again, and at 22:00 h off, Tuesday at 11:00 h on, at 22:00 h off, etc.). If a switching time is not required, it can be deleted by pressing 1.

1. Invoke the TIMER menu.
2. Select the days of the week with START and then press 5 (plus button) or 0 (minus button) to set the desired day.

3. Press START to invoke AON and set the desired time using the plus and minus buttons 2, 3, 7, 8. Press START. Proceed in the same way for AOF, BON and BOF.
4. Press STOP to leave the menu.

Resetting the operating hours of the tubes

Use the menu item CPI / CPI RESET COL to reset the operating hours of the collagen tubes to zero. Use the menu item CPI / CPI RESET UV to reset the operating hours of the UV tubes to zero. These tube hours must be reset after each replacement of tubes.

1. Select CPI with 5 (plus button) or 0 (minus button).
2. Select the desired type of tube COL / UV with 5 (plus button) or 0 (minus button).
3. Press START to open the RESET function.
4. Keep 1 (plus button) pressed as long as necessary to set the hours to zero.
5. Press START to save the settings, then exit the menu using the STOP button.

Time

These settings must only be made by trained service personnel!

Settings on service level II

Functions C'M'A'

Depending on the configuration of your system, the menu item PIN II/CMA allows you to switch on or off certain functions.

1. Invoke the PIN II menu and enter the PIN.
2. Set the desired value by pressing the plus and minus buttons of the corresponding letter.
3. Save the settings by pressing START, press STOP to leave the menu.

C (Channel) is deactivated if only external channel selection with exactly one channel is available as audio system for the unit. The channel-selection symbol is not displayed.

M (Music) is deactivated if there is no audio system available. No symbols regarding the audio system are displayed.

A (Air-conditioning unit) is not displayed if the tanning system is not equipped with an air-conditioning unit. No symbols regarding air-conditioning are displayed.

ACS funktions

Three submenus for fan control and air-conditioning are located under the menu item PIN II/ACS:

PRESETTING AIR-CONDITIONING UNIT (AIRCON)

Use the menu item AIRCON to specify if the air-conditioning unit should start automatically at the beginning of the tanning session (ON) or if it must be activated manually by the studio customer (OFF).

1. Invoke the PIN II menu and enter the PIN.
2. Press START to invoke the menu item ACS.
3. Select AIRCON by pressing 5 (plus button) or 0 (minus button).
4. Activate the function by pressing 4 (plus button) or deactivate it by pressing 9 (minus button).
5. Use the START button to save the settings and press STOP to exit the menu.

PRESETTING BODY FAN

Under the menu item ACS/Bodyvent, you can stipulate whether the body fan will be controlled automatically by means of ACS or whether this can only be controlled manually.

ON = automatic

OFF = manual

1. Invoke the PIN II menu and enter the PIN.
2. Press START to invoke the menu item ACS.
3. Select Bodyvent by pressing 5 (plus button) or 0 (minus button).
4. Activate the function by pressing 4 (plus button) or deactivate it by pressing 9 (minus button).
5. Use the START button to save the settings and press STOP to exit the menu.

ADJUST THE SPEED OF THE EXHAUST AIR FAN

Under the menu item OFFSET, you can stipulate whether the exhaust air fan should operate at a higher speed. An OFFSET of 00-99% can be set in steps of 10 %. This measure may become necessary in the case of poor venting. Note that such modifications must only be carried out by service staff!

1. Invoke the PIN II menu and enter the PIN.
2. Press START to invoke the menu item ACS.
3. Select OFFSET by pressing 5 (plus button) or 0 (minus button).
4. Press 4 (plus button) to increase the value or 9 (minus button) to decrease the value.
5. Save the settings by pressing START and exit the menu by pressing the STOP button.

mon amie skin sensor (terminal)

SENSOR-TEST

Perform a test of the melanin sensor. The values read by the sensor can be read directly.

1. Invoke the PIN II menu.
2. Select easyCare by pressing 5 (plus button) or 0 (minus button).
3. Press START to go to the submenu and select TEST by pressing 5 (plus button) or 0 (minus button).
4. Press the sensor onto the skin in order to start the test.
5. Press STOP to leave the menu.

Querying software info

Select the menu item PIN II/VERSION to display the name and number of the installed software version. This information is also displayed for approx. 2 seconds after the unit has been switched on.

1. Invoke the PIN II menu and enter the PIN.
2. Press 5 (plus button) or 0 (minus button) to select VERSION.
3. Press START to display the version information.

Download information

The menu items PIN II/la.Download and PIN II/fi.Download indicate time and date of the latest (la.Download) or of the first (fi.Download) software download.

1. Invoke the PIN II menu and enter the PIN.
2. Select la.Download or fi.Download by pressing 5 (plus button) or 0 (minus button).
3. Press the START button to display the corresponding information.

Setting the operating hours of the tubes

The operating hours of the tubes must be reset when replacing the control board or adjusted accordingly when utilizing used tubes!

Go to the menu item PIN II/xxxxxxh T.UV if you want to enter the operating hours of the UV tubes. Go to the menu item PIN II/xxxxxxh T.Co if you want to enter the operating hours of the collagen tubes.

1. Invoke the PIN II menu and enter the PIN.
2. Select T.Co or T.UV by pressing 5 (plus button) or 0 (minus button).
3. Press START to invoke the selected menu item.
4. Enter the desired value by pressing 5 (plus button) and 0 (minus button).
5. Save the settings by pressing START and exit the menu using the STOP button.

Maintenance and cleaning

Regular maintenance is required for the safe operation of the tanning unit and must be documented. Cleaning must be performed when necessary.

DANGER!

Live parts

Risk of fatal injury due to electric shock when touching live parts.

- Disconnect from mains and secure against reconnection!

- **USE ONLY ORIGINAL SPARE PARTS.**
- Replace illuminants and filters only with ones wich are characterized on the device.

Instructions for cleaning and care

GENERAL

- Before starting to clean the unit, take off any rings, bracelets, watches, etc. that you might be wearing in order to avoid scratching the surfaces.
- Cleaning fluid must not run into the appliance.

TUBES

- To preserve the tanning power, we recommend cleaning the tubes with warm water and a chamois after approx. 200 hours of operation.

ACRYLIC PANES, GRAB HANDLES AND DOOR HANDLES

- If possible, use the special cleaning and disinfectant agent “megaClean” supplied by KBL for cleaning the acrylic parts and handles, and dilute it in water at a ratio of 1:13.

VARNISHED AND PLASTIC PARTS

- Use a damp soapy cloth to clean the varnished and plastic surfaces.
- Do not clean the large plastic parts with a dry cloth. This might scratch the surfaces!

CHROMIUM-PLATED PARTS

- Only clean with a damp chamois and a cleaning agent for acrylic plastic (antistatic). Apply the cleaning agent onto the chamois and not directly onto the mirror surface.

CLEANING AGENTS

- The surfaces and the acrylic panes must not be cleaned with concentrated disinfectants or solvents or other liquids that contain alcohol!

Maintenance intervals

Component/ wearing part	Cleaning/care	Replacement
Tubes, CPI-equipped units	Tubes after approx. 200 operating hours	Tube operation: • Set level I: after 1200 operating hours
Acrylic panes	When necessary	After approx. 3000 hours
Ropes of the canopy drive	Check and grease after 500 - 600 hours	Replace all ropes after 3000 hours.
Air hoses	Check after 500 - 600 hours.	When necessary
Air-conditioning unit	Clean the heat exchangers after 500 - 600 hours and check the condensate pump.	When necessary

LOCKING THE CANOPY IN PLACE

To facilitate many maintenance and service procedures, the canopy can be locked in place (fixed) in its upper position. Turn the lever on the left-hand side to the left. When the canopy is then lifted, it will be locked in place. You can unblock it by turning the lever to the right. After the screws on the right-hand and left-hand side have been removed, the bed pane can be attached to the canopy.

Acrylic panes

CANOPY PANE AND SIDE PANE

The following table describes how to dismantle the acrylic panes.

	Procedure	Fig.
1	Lock the canopy in place.	
2	Remove the screws and fold the canopy pane and / or the side pane down.	31.1 31.2
3	If necessary, the pane can be removed from the hinge profile when it is in its lowest position.	
4	The assembly is carried out in reverse order. Make sure that the frame is correctly positioned in the hinge profile.	
5	When closing the canopy pane, ensure that all air nozzles exactly match their counterparts. If not, carefully push the nozzles concerned in their correct positions.	
6	Unblock the canopy.	

Figure 31.1 Screw of the canopy pane

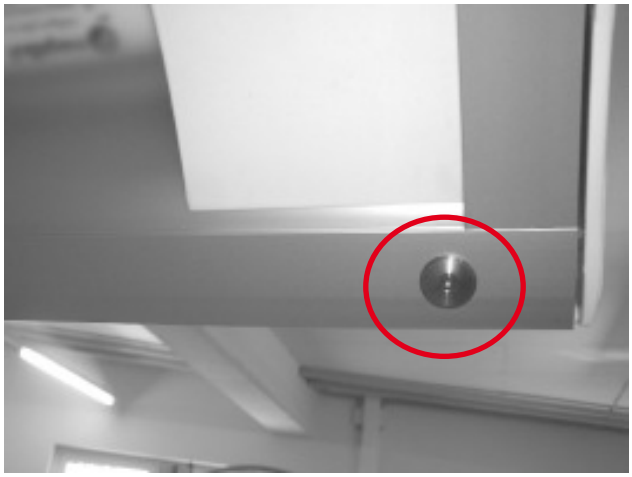
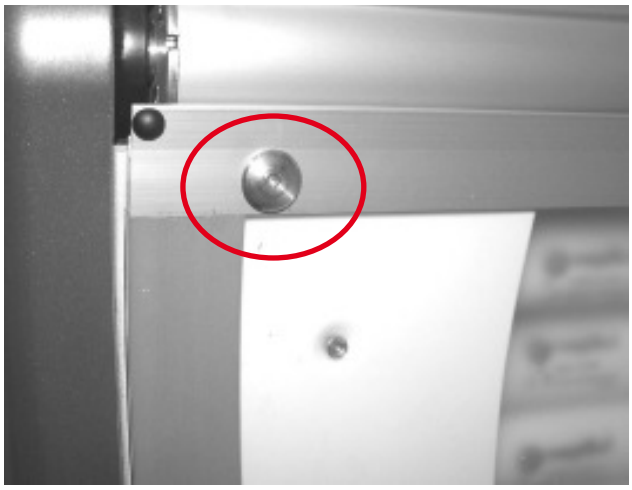


Figure 31.2 Screw of the side pane



BED PANE

Please refer to the following table for the cleaning of the bed pane. The electronics unit underneath the bed must absolutely not get in contact with any liquid. Therefore, use a slightly damp microfibre cloth to clean the underside of the bed pane and the interior of the bed section. Also use this cloth to clean the shoulder tanner. Apply megaClean as cleaning agent (spray onto the cloth).

	Procedure	Fig.
1	Lock the canopy in place.	
2	Undo the two screws on the right-hand and left-hand side of the bed pane.	31.3
3	Fold the bed pane up and use the supplied hooks to attach it to the canopy.	31.4
4	Use a microfibre cloth and megaClean to clean the underside of the bed pane.	
5	If the bed section is equipped with a ducting pane, the latter can be removed for cleaning purposes. Carefully re-place the ducting pane to ensure the proper cooling of the bed pane.	
6	Clean the upper surface of the bed pane and fix it again using the two screws.	

Figure 31.3. Screw of the bed pane

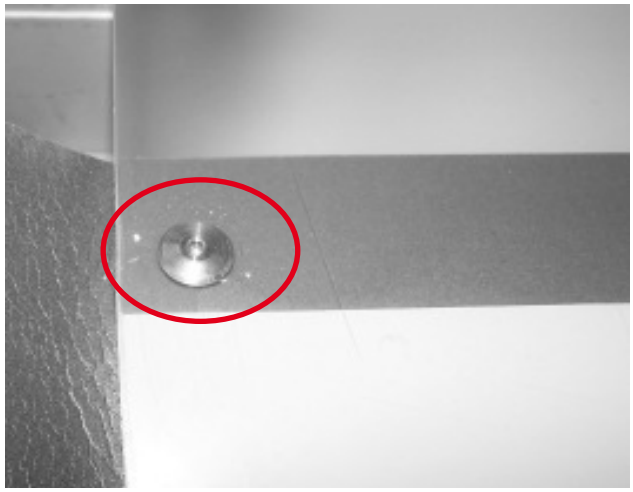
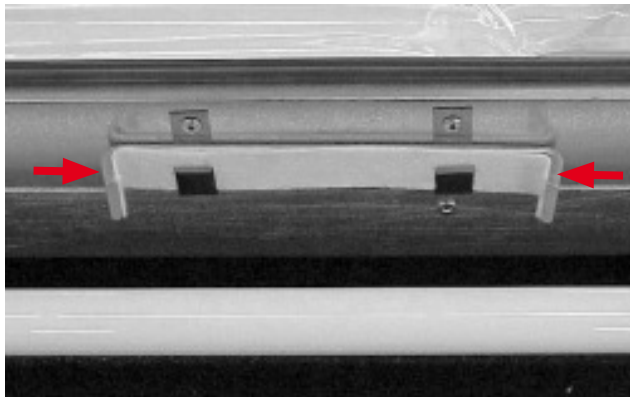


Figure 31.4 Hook for attachment of bed pane



Tubes

DISMANTLING

Proceed as follows in order to be able to clean or replace tubes:

	Procedure	Fig.
1	Dismantle the canopy, bed and side panes.	31.1 31.2 31.3
2	Remove the tube covers in the facial and foot areas.	

CLEANING CYCLE

In order to preserve the tanning effect, we recommend cleaning the tubes with warm water and a chamois after approx. 200 hours of operation. Do not use any cleaning agents that are aggressive or contain alcohol.

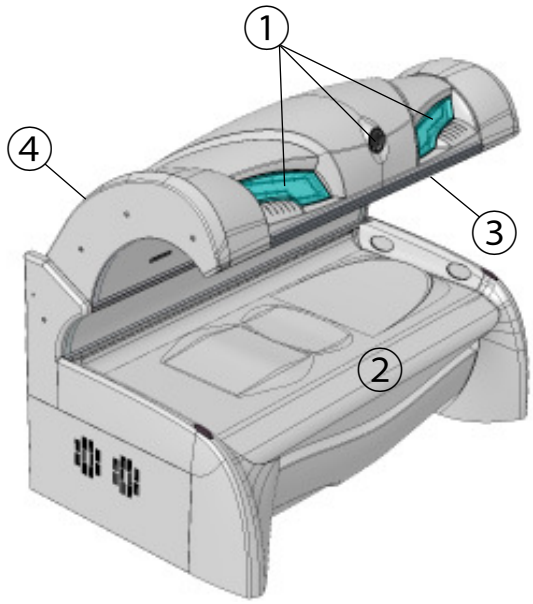
REPLACEMENT CYCLE

Only replace tubes with those listed on the device. When installing the tubes, make sure that the inscription is visible. In this position, the reflector of the tube is at the back. If your tanning unit is equipped with CPI, you must carry out a reset after each tube replacement. Reset the operating hours counter of the tubes after each replacement.

Unit lighting

The unit is lighted (decorative lighting) by means of three fluorescent tubes ② ③ ④ as well as high-performance LED's ① in the canopy of the unit.

Figure 32.1: mon amie unit lighting



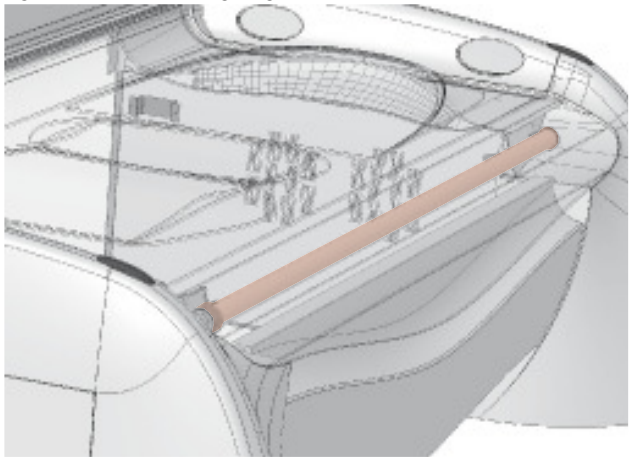
	Position	Item no
①	High-performance LED's in unit canopy.	
②	Fluorescent tube under the bed pane.	3230074783
③	The front fluorescent tube of the canopy.	3230074784
④	Fluorescent tube on the rear wall.	3230074784

In case of defective high-performance LED's, these can only be replaced by qualified specialists. Get in touch with the Service organisation in this case.

The front canopy fluorescent tubes ③ are changed just like the other canopy tubes.

FLUORESCENT TUBES UNDER THE BED PANE

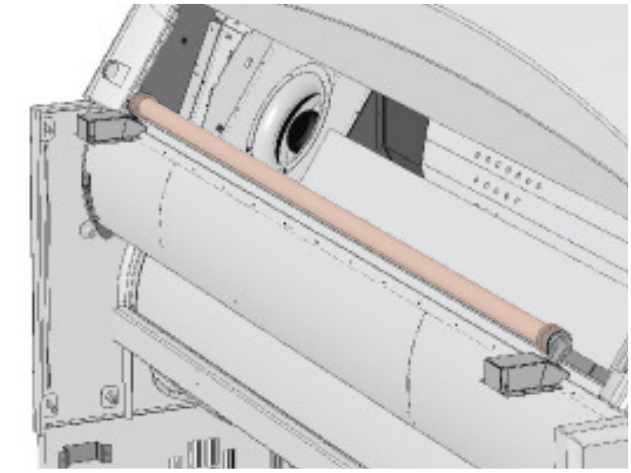
Figure 33.1: Front unit lighting



	Procedure	Fig.
1	Open the bed pane.	
2	The tube is now accessible and can be replaced.	33.1

FLUORESCENT TUBES ON THE REAR WALL

Figure 33.2: Rear unit lighting



	Procedure	Fig.
1	The tube is located on the rear wall and is easily accessible.	33.2

Filter pads

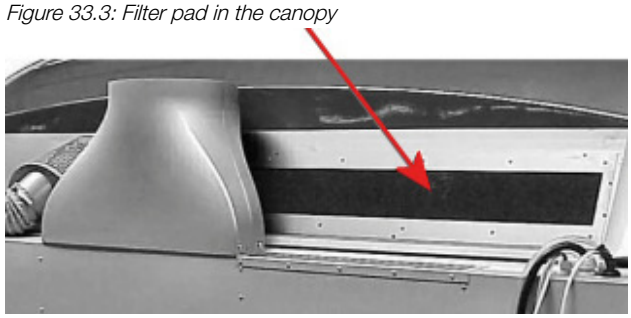
CLEANING CYCLE

The cooling air is sucked in via two dust filters. Depending on the location, clean the filter pads after approx. 100 hour of operation, or replace them, if necessary. Only use original filter pads for replacement in order to ensure a troublefree operation.

FILTER PAD IN THE CANOPY SECTION

You can easily replace the filter pad installed on the rear side of the canopy.

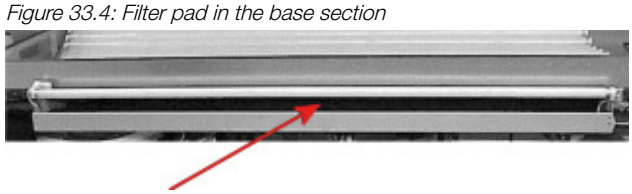
Figure 33.3: Filter pad in the canopy



FILTER PAD IN THE BASE SECTION

The filter pad is located behind the decorative lighting in the base section. Open the bed pane and remove the fluorescent tube to get access to the filter pad.

Figure 33.4: Filter pad in the base section



Canopy drive

REGULAR MAINTENANCE

In order to ensure a troublefree operation of the drive, carry out the maintenance of the ropes after each tube replacement (see table below, item 1).

TENSIONING THE SPRINGS

As soon as the canopy of the device does not remain safely in its upper position any more, the two springs must be tensioned. To do so, a ratchet spanner with hexagon socket (10 mm width across flats) is required.

	Procedure	Fig.
1	Check the spring ropes for wear. Should individual rope wires have spliced, always replace both ropes.	
2	Remove the side pane.	
3	There are tensioning screws on the right-hand and left-hand side.	34.1 34.2
4	Tension both springs equally.	
5	Check the canopy drive: the canopy stops in all positions.	
6	Close the side pane again.	

Figure 34.1: Tensioning spring on the left-hand side

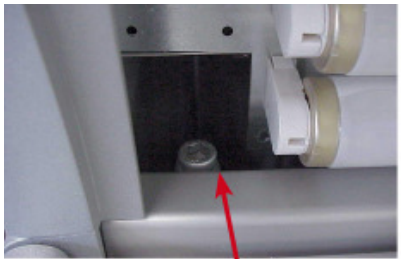
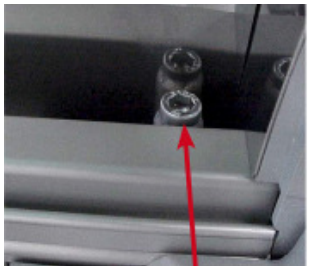


Figure 34.2: Tensioning spring on the right-hand side



Cooling and exhaust air

COOLING PRINCIPLE

The body fan blows ambient air through ten air nozzles into the tanning space of the collarium (blue). The upper filter cleans the air for the cooling of the tubes and sunlamps in the canopy section. The filter installed in the front cleans the cooling air for the base section (tubes). The fan sucks in the warm air and discharges it via the exhaust air duct (red).

Figure 34.3: Body cooling (blue) and cooling of the tanning unit (green), filter pads (orange) and heated exhaust air (red)

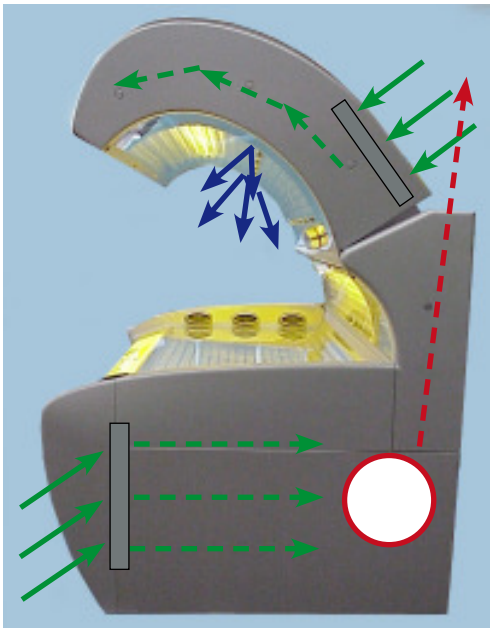
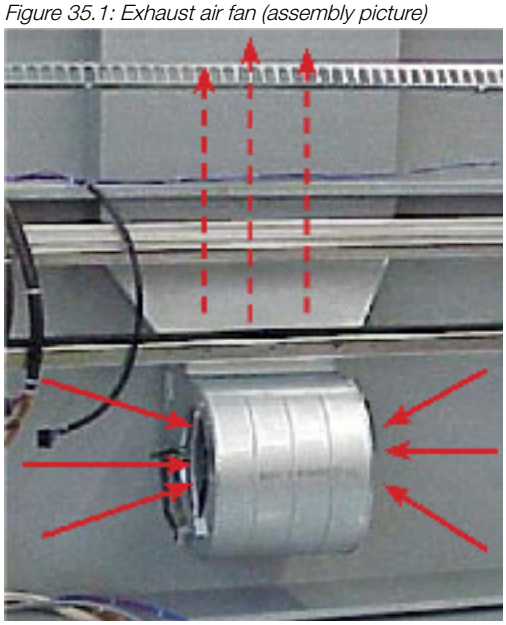


Figure 35.1: Exhaust air fan (assembly picture)



COOLING THE BED PANE

If an air-conditioning unit (optional feature) has been installed, both the bed pane and the canopy are cooled. The ambient air is sucked in through the fi lter, cooled in the air-conditioner and guided through an air hose into the space between ducting pane and bed pane. In the foot area, this air - mixed with booth air - is blown into the tanning space of the device.

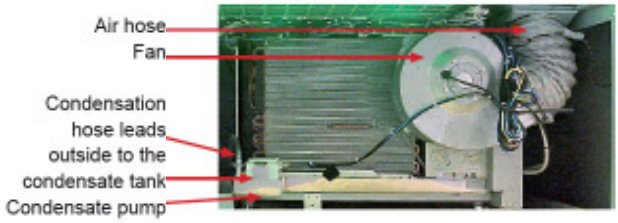
MAINTENANCE OF THE EXHAUST AND AIR-CONDITIONING UNIT

A clean and troublefree exhaust-air unit prevents the device from overheating. The maximum exhaust-air hose length of 6 m must not be exceeded unless there is an auxiliary fan installed.

	Procedure	Fig.
1	Open the lower cover at the front and check the following items regularly:	
2	The air hose at the air-conditioning unit must not be kinked.	
3	The filter pads in the bed section and in the canopy must be clean.	
4	Check the exhaust-air hose for kinks and damages; also test the function of the auxiliary fan in the case of excess hose lengths.	
5	Sufficient airing and ventilation of the tanning studio must be ensured.	
6	Check the correct positioning of the ducting pane in order to ensure the proper cooling of the bed pane.	

Air-conditioning unit

Figure 35.2: Air-conditioning unit, installed



Check the heat exchangers of the air-conditioning unit for dirt accumulation with each tube replacement. Soiled heat exchangers reduce the performance of the air-conditioner. Open the front cover and vacuum-clean the heat exchangers, if necessary. Check the air hose each time you change tubes. If it is defective, replace it immediately.

Condensate pump

The condensate pump is controlled by the processor in such a way that it is switched on every 5 minutes for 20 seconds during a tanning session. After the session, the pump continues operating.

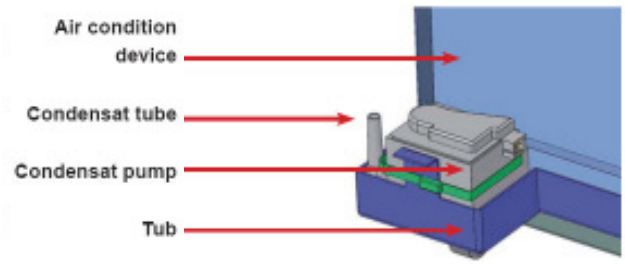
MAINTENANCE

Always check the proper functioning of the condensate pump when you replace tubes. To do so, start the tanning program. Open the front cover and slowly pour water into the condensate tray. The water must be pumped off. The unit must remain connected to the power supply after the tanning

session in order to enable the run-on of the pump. The condensate hose must be guided into the tank without any kinks and up to a level that does not exceed the installation level by more than 25 cm.

Regular and scrupulous maintenance of the unit helps preserve both reliability and a stable value of the device over a long period of time.

Figure 36.1: Condensate pump



Audio system with mp3 sound box

The assembly underneath the bed pane (head area) comprises the following components:

- megaVoice, the acoustic user guide,
- mp3 sound box for the “Music” option, and
- I2C audio switch

The audio switch is used for I2C bus adaptation, for connecting an external audio signal with volume control and the connections to the MP3 players. The memory card for the mp3 sound box can be exchanged after the bed pane has been opened.

Figure 36.2: Installation underneath the bed pane

Figure 36.3: With SD audio card

Figure 36.4: SD card ; push to disengage, then pull out.

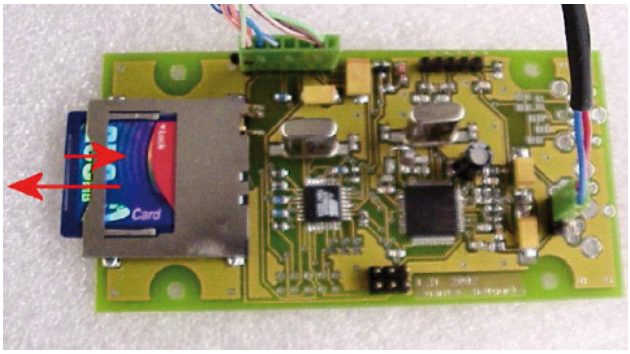
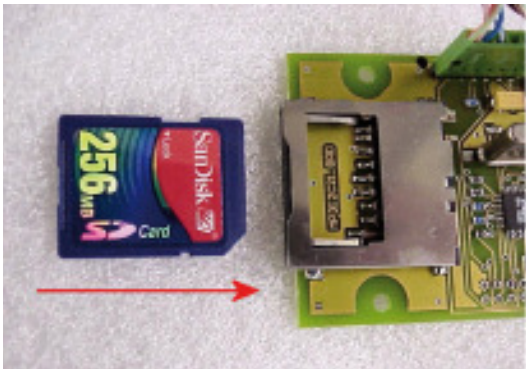


Figure 36.5: SD card; slide in till it engages



Recording to an SD card

Please refer to the chapter “Technical data” for information on supported card sizes as well as file-system and MP3 formats.

Using the SD Writer software (download from http://www.megasun-dev.de/support), you can add or delete audio files to the SD card for music at your convenience. These tracks are played after the corresponding source has been selected. The number of files is limited by the storage capacity of the SD card.

1. Insert the card into the computer.
2. Activate SD Writer and copy files onto the card.
3. Insert the card into the MP3 player.
4. Restart the device. To do so, pull out the main plug and plug it in again. In this way, you make sure that the MP3 player will identify the SD card.

⚠ WARNING!

- The SD card must only be formatted using FAT16!
- Do not modify any files other than those in the music MP3 player!

mon amie skin sensor

- **Do not use any concentrated disinfectants or solvents or other liquids that contain alcohol.**

CLEANING THE HOUSING

- The plastic housing should be cleaned as needed.
- Only use a cloth that has been dampened with a mild soap solution to clean the surfaces of the housing.
- The cleaning solution must never get into the housing.

CLEANING THE MELANIN SENSOR

- Clean the melanin sensor before each use in the presence of the customer.
- Use only a common disinfecting cloth for cleaning.
- The cleaning solution must never get into the melanin sensor.

Error messages

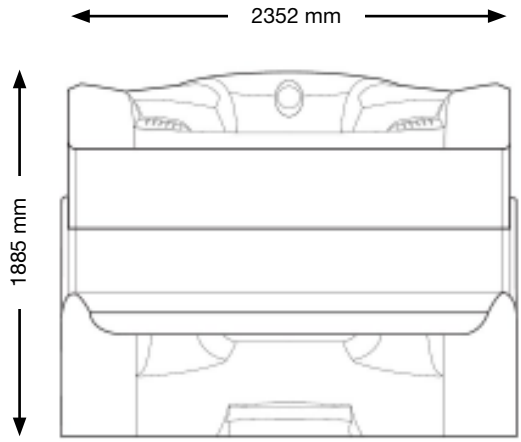
Statusmessage KBL/4	Status description	Remedy
E00: Hardware Error	Main board defective.	Replace the main board (contact your Customer Service).
E01: BUS: Error fan speed control	Faulty communication between Mainboard and fan-speed control.	Check / replace the patch cable. If the fault persists, contact your Customer Service..
E02: BUS: Error temperature sensor	I²C Temperature sensor defective or malfunctioning.	Check / replace the patch cable. If the fault persists, contact your Customer Service.
E03: Maximum tanning time.	Enabling signal from coin-box system comes in longer than the time value approved under “Maximum tanning time” (voltage remains connected) .	Disconnect from the coin-box system.
E04: BUS: Error vocie mp3-player	Data exchange between control and Voice MP3 Player disturbed.	Check „Voice“ SD Card. Check / replace the patch cable. If the fault persists, contact your Customer Service.
E06: BUS: Error easyCare relay module	Communication between control and easyCare relay has been interrupted.	Check / replace the patch cable. If the fault persists, contact your Customer Service.
E07: BUS: Error I²C-Bus	I²C bus system defective.	Check / replace the patch cable. If the fault persists, contact your Customer Service.
E08: Excess temperature bimetal	Bi-metal switch triggers.	Check the air-intake/air-discharge system and the fan. Let the tanning system cool down and acknowledge the message by pressing the START button. If the fault persists, contact your Customer Service.
E12: BUS: Error mon amie Terminal	Communication between control and mon amie terminal has been interrupted.	Check cable connections and power supply. Acknowledge the message by pressing START. If the fault persists, contact your Customer Service.

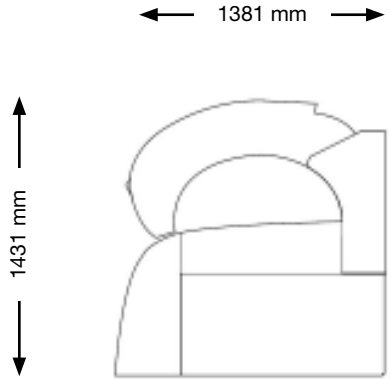
Technical data

Ambient conditions	
Installation site	In dry rooms (booths) with sufficient airing and ventilation – max. Relative air humidity: ≤ 70 % – max. Room temperature: ≤ 30 °C – Minimum height of the room: 1935 mm
Weights and measures	
Dimensions in mm (Height x width x depth)	1431 x 2352 x 1381 (when closed) 1885 x 2352 x 1381 (when open)
Weight	approx. 670 kg (with air-conditioning)
Electrical connection values	
Protective class	IP20
Mains voltage	400V / ~3N / 50Hz
Wire cross section	5 x 2,5mm^2 Ölflex
MP3-Player	– Supports SD cards up to 1 GB – Supported file system (SD card): FAT16 – Supported MP3 files: constant and variable bit rate, 96-320 Kbit/s
Fuses	Automatic fuse K-type (safety cut-out), 3-pole, 3x16A with residual current operated circuit breaker (RCD)
Air discharge	
Fan	Exhaust-air socket Ø 300 -- 1600 mm (top) Minimum capacity (exhaust air): 2250 m^3/h
Exhaust-air hose	Ø 300

UNIT DATA - KBL mon amie			
		Item no	**Equivalency code range**
Tubes	Canopy: 10x MS XXL Super R 120 (2015 R 120W) 10x MS Collagen plus 2.0 (2007 R) Side: 3x MS XXL Super R 120 (2015 R 120W) 4x MS Collagen plus 2.0 (2007 R) Bed: 9x MS Ultimate III 120 cpi energy (1840 R 120W) 9x MS Collagen plus 1.8 (1858 R)	3230036000 3230074784 3230036000 3230074784 3230076060 3230074783	120-R-(30-40) / (3,4-4,6) - 120-R-(30-40) / (3,4-4,6) - 120-R-(50-67) / (5,4-7,4) -
Nominal power	With air-conditioning: 8260W - without air-conditioning: 7000W		

Views





EQUIVALENCE KEY FOR UV FLUORESCENT LAMPS

Marking of UV fluorescent lamps according to IEC 61228

Sample coding of a lamp

160-R-32 / 3,2

Use of replacement tubes.
The tanning tables referring to this sunbed are only valid as long as the system is operated with the original tube set!

- **160** – Ratio of the NMSC-effective UV irradiance ≤ 320nm und > 320nm (NMSC = Non Melanom Skin Cancer)
- **32** – Erythema-effective UV irradiance in the range of 250-400nm in mW/m²
- **R** – Reflector types
  - O - For lamps without reflector
  - B - For lamps with reflector angles wider than >230°
  - N - For lamps with reflector angles narrower than <200°
  - R - For lamps with usual reflector angles of ≥200° ∧ ≤230°
- **3,2** – Indication of Watts (electrical power)

Remarks

Remarks

Remarks

mon amie

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